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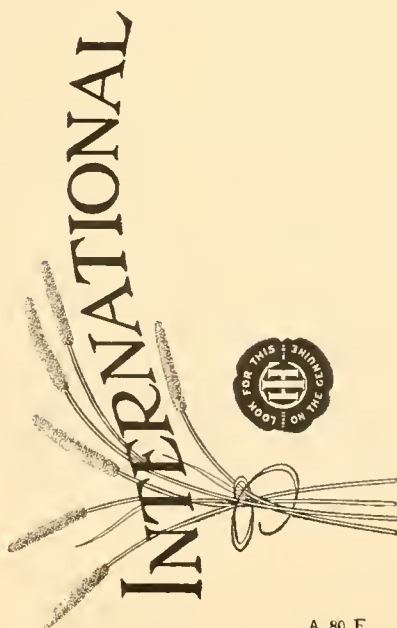
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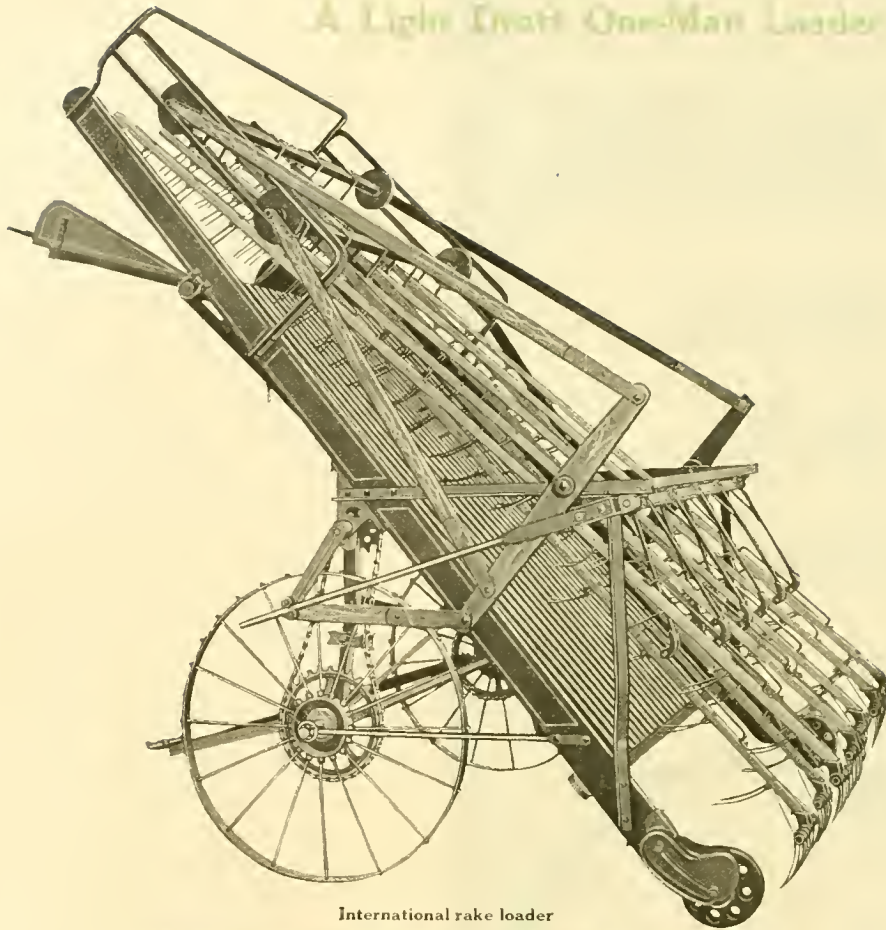
RAKE HAY LOADER



INTERNATIONAL HARVESTER
COMPANY OF AMERICA
(INCORPORATED)
CHICAGO U S A



A Light Weight One-Man Loader



International rake loader

International Rake Hay Loader

The International rake hay loader is the ideal loader for the man with limited help. It was designed primarily for loading from the swath, but will handle light windrows in a very satisfactory manner. When one man is handling this loader he can drive a short distance, allowing the hay to collect at the rear end of the wagon and then stop the team and distribute the hay evenly. By repeating this operation it is a very simple matter for one man to put on a load in fifteen or twenty minutes.

Operating Mechanism

The operating mechanism of this loader is simple and durable, and is high enough from the ground to prevent the hay from wrapping about it. On ordinary loaders of this type a crooked crank shaft is used for operating the rake heads. On the International a decided improvement has been made in this respect. Two rock shafts, operated by sliding bars and cranks, are provided which eliminate the necessity for a crooked crank shaft. These rock shafts are timed to operate the rake heads so as to gather all the hay without the use of a high-speed driving mechanism. The danger of the mechanism getting out of line which exists with the crooked crank shafts, has also been overcome in the International by the use of the rock shafts. Another valuable feature of this operating mechanism is that the power is applied at the upper end of the rake bars and is a pull, not a push. Because of this fact there is no danger of the rake bars on the International buckling or breaking when heavy hay is being handled.

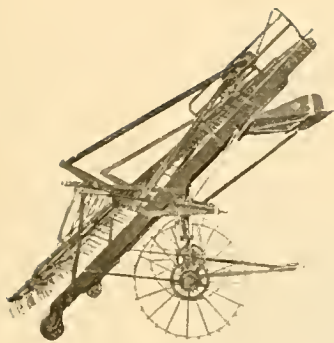


Fig. 1
Beginning stroke

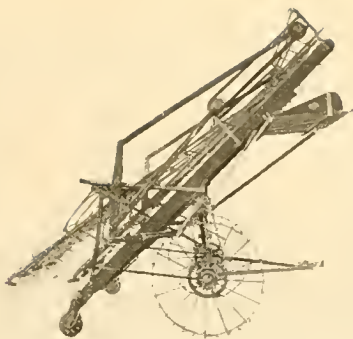


Fig. 2
One-quarter of a stroke, completed

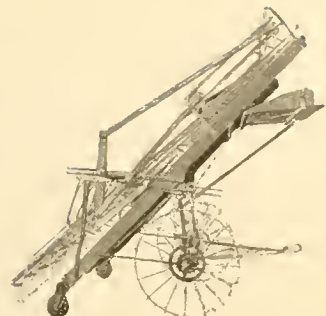


Fig. 3
One-half of stroke, completed

Showing three positions of working parts in completing one-half of a stroke

Long Elliptical Strokes

The rake bars on the International loader move parallel to the ground during nearly one-half of the stroke. On other loaders of this type the strokes are short and choppy, and the motion must therefore be very rapid. The result is that the hay is badly threshed and the machine is subjected to a severe strain. On the International one end of the rake arm is attached to the rock shaft and the other end moves up and down in a bracket on the lower end of the rake bar. This produces the long, elliptical stroke.

The rake arms are made of steel, and the lower ends, which move in the brackets on the rake bars, are fitted with rollers which make them very smooth running.

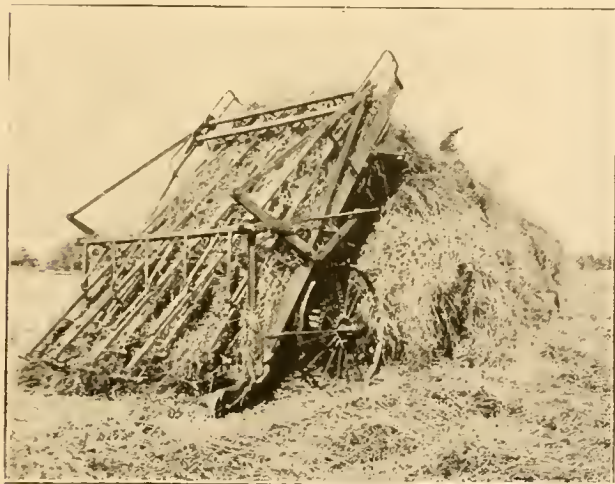
Flexible Rake Heads

The rake heads have a great deal of flexibility so that when they come in contact with any obstruction in the field they will not be damaged. This also prevents them from digging up the ground.

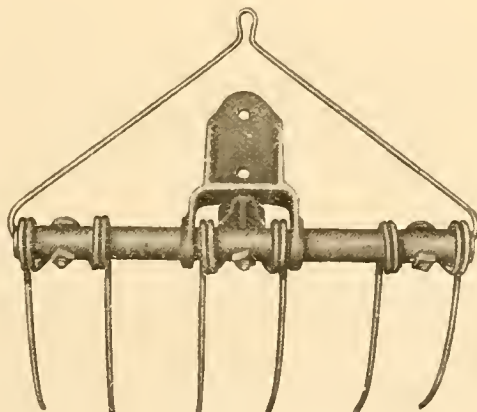
The teeth are made of oil-tempered steel and are of the triple coil type, which allows them to be twisted and forced back without danger of breakage.



Rake arm connection
to rake bar



International loader in operation



Rake head note coiled teeth

Adjustable Ground Wheels

The loader is equipped with two ground wheels, one at each side at the foot of the elevator. These wheels can be adjusted to different heights so that the rake heads may be kept at the proper distance from the ground.



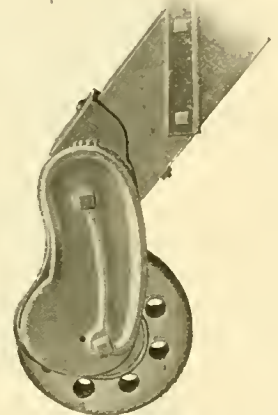
Ground wheel adjusted for bringing rakes close to ground

placed well under the loader so that the swinging motion common to many loaders is eliminated.

This feature also permits the driver to get the loader close to fences and ditches, and permits the machine to be taken through gates without difficulty.

Frame Construction

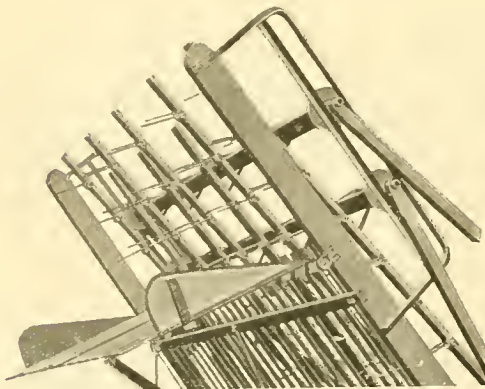
The frame is well put together and braced in such a manner that it is rigid, holding all the working parts in alignment, even in the roughest fields and when working with the heaviest hay.



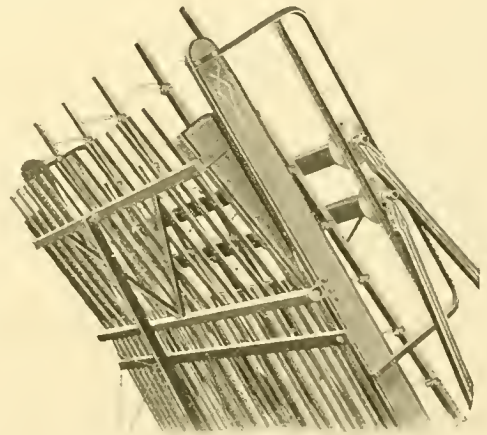
Ground wheel adjusted for raising rakes as far as possible from ground

Drop Gate

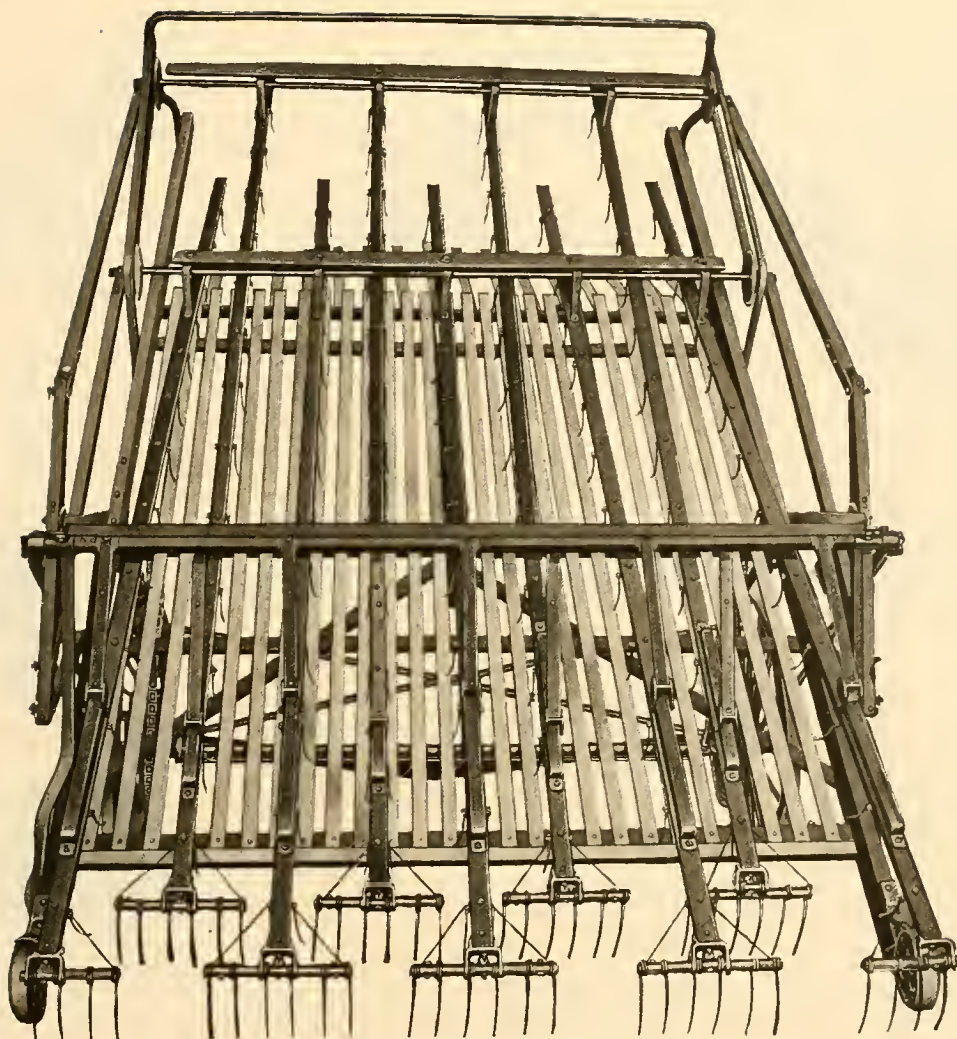
The drop gate has a wide range of adjustment, and can be raised or lowered to suit the various heights of the load with little difficulty.



Drop gate lowered for starting the load



Drop gate raised for finishing the load



Rear view of the International rake hay loader

Simple Mechanism

In the cut on this page, note the simplicity of the mechanism which controls the stroke of the rake and the absence of the crooked crank shaft common to other loaders of the rake type. It will also be seen that the operating mechanism is placed well out of the way of the hay so that there is no danger of choking.

Convenient Hitching Device

It is not necessary for the driver to leave the top of the load to disconnect the International loader from the wagon. He simply pulls a rope which extends up to the top of the load from a lock on the hitching device. This leaves the loader standing in the field in an upright position and ready for the next wagon. The release lock is placed in such a position that it cannot become clogged with falling hay.



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